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4, 7TH MAIN MALLESWARAM, BANGALORE -3

QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Kempegowdanagara Road and Surrounding areas in Ward No.13, (Doddabommasandra)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
3	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
4	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
5	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	6 sets /150-200 cum	151.88	12	12

Assistant Executive Engineer
Vidyaranyapura Sub Division
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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-05-18-21** **Date: 11-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kempegowdanagara Road and Surrounding areas in Ward No.13, (Doddabommasandra)
Agency	:	Sri.D.A.Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru - 560064
Customer's Reference	:	BBMP/EE/BTP/WO/139/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-03-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-03-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.15	_
2	Finess by Air permeablity method (m^2/kg,Min)	282.2	225m^2/kg, Min
3	Density (gm/cc)	3.15	_
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1 mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Technical Manager

Assistant Executive Engineer
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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-05-18-21**
		Date: 06-04-23
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kempegowdanagara Road and Surrounding areas in Ward No.13, (Doddabommasandra)
Agency	:	Sri.D.A.Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru - 560064
Customer's Reference	:	BBMP/EE/BTP/WO/139/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-03-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	09-03-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.0N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2023-05-18-21 Date: 10-03-23
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kempegowdanagara Road and Surrounding areas in Ward No.13, (Doddabommasandra)
Agency	:	Sri.D.A.Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru - 560064
Customer Reference	:	BBMP/EE/BTP/WO/139/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-03-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-03-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	248	248	5.0	95.0	90-100
3	10 mm	2188	2436	48.7	51.3	25-55
4	4.75 mm	2285	4721	94.4	5.6	0-10
5	Pan	279	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-05-18-21

Date: 10-03-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.35	–
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Date: 10-03-23

Lab ID	:	CP-2023-05-18-21
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kempegowdanagara Road and Surrounding areas in Ward No.13, (Doddabommasandra)
Agency	:	Sri.D.A.Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru - 560064
Customer's Reference	:	BBMP/EE/BTP/WO/139/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-03-23
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	08-03-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	35	35	3.5	96.5	90-100	90-100	90-100	95-100
3	2.36 mm	172	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	116	323	32.3	67.7	30-70	55-90	75-100	90-100
5	600 micron	201	524	52.4	47.6	15-34	35-59	60-79	80-100
6	300 micron	217	741	74.1	25.9	5-20	8-30	12-40	15-50
7	150 micron	183	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-05-18-21**

Date: 10-03-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.94	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron(%)	7.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2023-05-18-21**

Date: 17-03-23

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kempegowdanagara Road and Surrounding areas in Ward No.13, (Doddabommasandra)

Agency : Sri.D.A.Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru - 560064

Customer's Reference : BBMP/EE/BTP/WO/139/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-03-23

Sample Type /Size : Precast Cover Slab - 100mm Thick

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 13/03/2023

Grade of Slab : M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.42	100.48	1.116	4707	81.2	17.3	16.0	20.1
2	Cover Slab-2	77.54	100.52	1.122	4721	80.6	17.1	15.9	19.8
3	Cover Slab-3	77.21	100.51	1.118	4681	79.3	16.9	15.8	19.7

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2023-05-18-21

Date: 23/03/2023

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kempegowdanagara Road and Surrounding areas in Ward No.13, (Doddabommasandra)

Agency : Sri.D.A.Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru - 560064

Customer's Reference : BBMP/EE/BTP/WO/139/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-03-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	16/03/2023	23/03/2023	151.27 X 150.29 X 149.61	22734	8.789	590.8	26.0	25.5
2	Cement Concrete Pavement	M30	16/03/2023	23/03/2023	151.21 X 150.36 X 151.15	22736	8.457	598.9	26.3	
3	Cement Concrete Pavement	M30	16/03/2023	23/03/2023	151.92 X 151.45 X 150.54	23009	8.920	554.1	24.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2023-05-18-21

Date: 13/04/2023

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kempegowdanagara Road and Surrounding areas in Ward No.13, (Doddabommasandra)

Agency : Sri.D.A.Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru - 560064

Customer's Reference : BBMP/EE/BTP/WO/139/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-03-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement	M30	16/03/2023	13/04/2023	149.71 X 150.17 X 150.04	22481	8.760	745.3	33.2	33.0
2	Cement Concrete Pavement	M30	16/03/2023	13/04/2023	151.24 X 149.68 X 150.63	22638	8.150	739.2	32.7	
3	Cement Concrete Pavement	M30	16/03/2023	13/04/2023	150.13 X 151.03 X 151.44	22674	8.585	754.4	33.3	

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Format No. CP/TF/01

Lab ID : CP-2023-05-18-21

Date: 23/03/2023

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kempegowdanagara Road and Surrounding areas in Ward No.13, (Doddabommasandra)

Agency : Sri.D.A.Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru - 560064

Customer's Reference : BBMP/EE/BTP/WO/139/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-03-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	16/03/2023	23/03/2023	150.16 X 149.90 X 150.56	22508	8.378	582.7	25.9	25.8
2	Cement Concrete Pavement	M30	16/03/2023	23/03/2023	151.91 X 149.33 X 151.95	22685	8.661	609.6	26.9	
3	Cement Concrete Pavement	M30	16/03/2023	23/03/2023	149.43 X 150.22 X 151.91	22448	8.848	555.2	24.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2023-03-18-21

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Date: 13/04/2023

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kempegowdanagara Road and Surrounding areas in Ward No 13, (Thanisandra)

Agency : Sri D A Ravindra, No 1265, IIIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru - 560064

Customer's Reference : BBMP/EE/BTP/WO/139/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-03-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	16/03/2023	13/04/2023	151.14 X 149.38 X 150.40	22577	8.455	759.5	33.6	33.4
2	Cement Concrete Pavement	M30	16/03/2023	13/04/2023	149.92 X 151.37 X 151.05	22693	8.565	740.8	32.6	
3	Cement Concrete Pavement	M30	16/03/2023	13/04/2023	150.38 X 149.25 X 151.21	22444	9.030	762.4	34.0	

* The results obtained are satisfactory as per standard requirements

Note:
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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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Assistant Executive Engineer
Vidyaranyapura Sub Division
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Format No: CP/TT/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-18-21

Date: 23/03/2023

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kempegowdanagara Road and Surrounding areas in Ward No.13, (Doddabommasandra)

Agency : Sri.D.A.Ravindra, No.1265, IIIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru - 560064

Customer's Reference : BBMP/EE/BTP/WO/139/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-03-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/03/2023

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	16/03/2023	23/03/2023	149.26 X 151.63 X 151.45	22632	8.558	582.6	25.7	25.6
2	Cement Concrete Pavement	M30	16/03/2023	23/03/2023	149.99 X 149.62 X 150.08	22442	8.285	566.7	25.6	
3	Cement Concrete Pavement	M30	16/03/2023	23/03/2023	151.47 X 149.50 X 151.59	22645	8.125	554.3	24.5	

* The results obtained are satisfactory as per standard requirements

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Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-18-21 Date: 13/04/2023

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kempegowdanagara Road and Surrounding areas in Ward No.13, (Doddabommasandra)

Agency : Sri.D.A.Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru - 560064

Customer's Reference : BBMP/EE/BTP/WO/139/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-03-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	16/03/2023	13/04/2023	151.61 X 151.17 X 150.51	22919	8.644	777.7	33.9	33.2
2	Cement Concrete Pavement	M30	16/03/2023	13/04/2023	151.67 X 150.59 X 150.77	22840	8.941	736.1	32.2	
3	Cement Concrete Pavement	M30	16/03/2023	13/04/2023	151.74 X 149.30 X 150.17	22654	8.271	755.2	33.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-18-21

Date: 25/03/2023

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kempegowdanagara Road and Surrounding areas in Ward No.13, (Doddabommasandra)

Agency : Sri.D.A.Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru - 560064

Customer's Reference : BBMP/EE/BTP/WO/139/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-03-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	18/03/2023	25/03/2023	149.27 X 151.56 X 149.22	22622	9.063	586.2	25.9	25.4
2	Cement Concrete Pavement	M30	18/03/2023	25/03/2023	151.86 X 151.57 X 151.89	23017	8.624	604.1	26.2	
3	Cement Concrete Pavement	M30	18/03/2023	25/03/2023	149.95 X 150.62 X 150.37	22586	8.629	544.5	24.1	

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Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-18-21

Date: 15/04/2023

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kempegowdanagara Road and Surrounding areas in Ward No.13, (Doddabommasandra)

Agency : Sri.D.A.Ravindra, No.1265, IIIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru - 560064

Customer's Reference : BBMP/EE/BTP/WO/139/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-03-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	18/03/2023	15/04/2023	150.52 X 150.47 X 150.15	22649	8.681	756.9	33.4	32.9
2	Cement Concrete Pavement	M30	18/03/2023	15/04/2023	151.14 X 151.24 X 149.31	22858	8.478	731.7	32.0	
3	Cement Concrete Pavement	M30	18/03/2023	15/04/2023	151.66 X 151.33 X 149.13	22949	8.667	764.8	33.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/03/2023

Lab ID : CP-2023-05-18-21
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains at Kempegowdanagara Road and Surrounding areas in Ward No.13, (Doddabommasandra)
Agency : Sri.D.A.Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru - 560064
Customer's Reference : BBMP/EE/BTP/WO/139/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 20-03-23
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 25/03/2023

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	18/03/2023	25/03/2023	150.42 X 149.07 X 149.62	22424	9.028	576.0	25.7	25.3
2	Cement Concrete Pavement	M30	18/03/2023	25/03/2023	150.83 X 151.29 X 149.54	22818	8.752	593.5	26.0	
3	Cement Concrete Pavement	M30	18/03/2023	25/03/2023	150.30 X 151.99 X 151.38	22844	8.490	550.1	24.1	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/04/2023

Lab ID : CP-2023-05-18-21

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kempegowdanagara Road and Surrounding areas in Ward No.13, (Doddabommasandra)

Agency : Sri.D.A.Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru - 560064

Customer's Reference : BBMP/EE/BTP/WO/139/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-03-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	18/03/2023	15/04/2023	149.05 X 151.76 X 150.31	22620	8.431	755.5	33.4	33.1
2	Cement Concrete Pavement	M30	18/03/2023	15/04/2023	150.90 X 151.22 X 149.54	22819	8.702	737.7	32.3	
3	Cement Concrete Pavement	M30	18/03/2023	15/04/2023	149.11 X 150.42 X 151.56	22430	8.297	754.3	33.6	

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Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/03/2023

Lab ID	:	**CP-2023-05-18-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kempegowdanagara Road and Surrounding areas in Ward No.13, (Doddabommasandra)
Agency	:	Sri.D.A.Ravindra, No.1265, IIIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru - 560064
Customer's Reference	:	BBMP/EE/BTP/WO/139/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-03-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement	M30	18/03/2023	25/03/2023	150.32 X 151.43 X 150.21	22763	8.196	569.1	25.0	25.5
2	Cement Concrete Pavement	M30	18/03/2023	25/03/2023	150.44 X 149.36 X 149.99	22470	8.173	600.4	26.7	
3	Cement Concrete Pavement	M30	18/03/2023	25/03/2023	149.70 X 151.68 X 150.40	22706	8.484	563.4	24.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/04/2023

Lab ID	:	**CP-2023-05-18-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kempegowdanagara Road and Surrounding areas in Ward No.13, (Doddabommasandra)
Agency	:	Sri.D.A.Ravindra, No.1265, IIIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru - 560064
Customer's Reference	:	BBMP/EE/BTP/WO/139/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-03-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	18/03/2023	15/04/2023	149.36 X 151.96 X 149.97	22696	8.918	762.8	33.6	33.3
2	Cement Concrete Pavement	M30	18/03/2023	15/04/2023	150.60 X 149.31 X 151.54	22486	8.408	725.8	32.3	
3	Cement Concrete Pavement	M30	18/03/2023	15/04/2023	151.44 X 149.70 X 151.96	22670	8.932	770.1	34.0	

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